FM/FM & RF Systems

Property of
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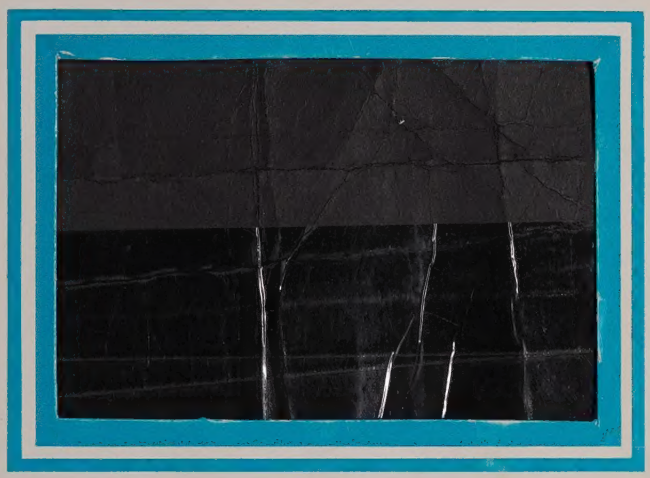

NEMS CLARKE CO.

919 JESUP BLAIR DRIVE • SILVER SPRING, MARYLAND

A DIVISION OF Vitro CORPORATION OF AMERICA

INSTRUCTION BOOK
FOR
RF MEASURING SET
NTS-200

NEMS-CLARKE COMPANY
919 Jesup-Blair Drive
Silver Spring, Maryland
A Division of VITRO Corporation of America

NTS-200

OPERATING PROCEDURE

I. Measurements in the 55-260 mc. range. (Where the units under test have an output range of 55 to 260 mc, such as preamplifiers and multicouplers.)

A. Preliminary Adjustments.

1. Operate the NTS-200 from 117 volts AC. Allow 10 minutes warm-up period.

2. Set the gain controls to mid-range. Range switch to the 55-260 mc. input position. Attenuator switched to out and the Output control fully counter-clockwise.

B-1. Tune the NTS-200 to the frequency desired. Connect the noise output to the input of the unit under test with a short length of RG-55/U or RG-58/U cable. The output of the unit under test is connected to the 55-260 mc. input jack.

2. Adjust the gain controls for an indication of "0" on the Level meter. Switch the attenuator "in" and increase the output control until the Level meter again reads "0". The noise figure in db. of the unit under test can be read directly from the Noise Figure meter. Make due allowance as to whether the N. F. meter switch is on Low or High to give correct Noise Figure reading in db.

21.4 mc IF ALIGNMENT

1. Output

Remove V-301 and V-303. Connect the scope to TP-302. Connect the sweep and marker generators between pin 1 of V-305 and ground on the tube socket mounting strap nut. Set the sweep generator output to maximum. Adjust the transformer (T-309) slugs for maximum symmetrical response centered at 21.4 mc.

2. Fourth IF Amplifier Adjustment

Connect the sweep generator between pin 1 of V-304 and ground on the tube mounting strap nut. Set the sweep generator output to produce a peak to peak deflection of 0.5 volt. Adjust T-307 (primary_ and T-308 (secondary) for a symmetrical response centered at 21.4 mc. The response shape should be flat topped or slightly round-nosed.

3. Third IF Amplifier Adjustment

Replace V-303. Set both gain controls maximum clockwise. Connect the sweep generator between pin 1 of V-303 and ground on the tube mounting strap nut. Adjust the sweep output to maintain 0.5 volts peak to peak on the scope. Adjust T-305 (primary) and T-306 (secondary) for a symmetrical response curve centered at 21.4 mc. The response shape should be flat top or slight round-nosed.

4. L-301 Adjustment

Disconnect C-313 from attenuator and tune L-301 to 21.4 mc. Use grid-dip meter set to frequency against 21.4 mc marker generator. Reconnect C-313 to attenuator.

5. Second IF Amplifier Adjustment

Replace V-301. Remove the cable connected to J-202. Solder a 10 ohm resistor between pin 1 or V-301 and the ground strap nut. Solder a 470 ohm resistor to pin 1. Connect the sweep generator between the 470 ohm resistor and ground on the tube mounting strap nut. Place the attenuator in the out position. Adjust T-303 (primary) and T-304 (secondary) for a symmetrical response curve centered at 21.4 mc. The response shape should be flat topped or slightly round-nosed. After the adjustment is completed remove the 10 ohm and 470 ohm resistors.

6. First IF Amplifier Adjustment

Install the IF bottom cover securely. Remove V-204. Connect the cable to J-202.

Connect the sweep generator to TP-202 on the R. F. Chassis. If excessive noise observed on scope pattern, bypass TP-302 to ground with a .001 μf disc ceramic capacitor. Adjust T-301 (primary) and T-302 (secondary) for a symmetrical response centered at 21.4 mc. The response shape should be round-nosed with a 3 db bandwidth of 190 mc ±20%.

II. Measurements using the 5 mc input. Use with 1400 series receivers.

A. Preliminary Adjustments.

1. Set the gain controls to mid-range. The range switch to 5 mc. input. Set the NTS-200 tuner to 260 mc. Attenuator in out position and the output control fully counterclockwise.

2. Connect the noise output to the receiver antenna with a short length of RG-55/U or RG-58/U cable. Connect the 5 mc. input terminal to the 5 mc. IF output jack of the receiver with a 30 inch length of RG-62/U low capacity cable.

3. Connect the Receiver control to the Signal Strength Output Jack on the rear apron of the 1401 style receivers or to the 1400 style receivers.

B. Noise Figure Measurements.

1. Have the receiver in operation on the frequency to be checked. The IF switch in the 500 kc position.

2. Adjust the left hand gain control on the NTS-200 for a reading of "O" on the Level Meter.

3. Switch the attenuator "IN" and increase the Noise Output until the Level meter again reads "O".

4. The Noise Figure in db of the receiver under test can be read directly from the NF meter on the NTS-200.

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R. F. ALIGNMENT

A. Oscillator Tracking:

1. Adjust C-229 for correct dial indication at 100 mc. (101.1 mc WWDC-FM may be substituted.)

2. Check for correct dial indication at 250 mc. Pushing C-230 toward the grid bar will correct for a high dial reading at 250 mc after the low end frequency (100 mc) has been set with C-229.

3. Alternate between steps 1 and 2 until the stated frequencies are indicated correctly on the tuning dial within 0.2 mc with the RF cover plate on.

4. The tuning dial must be accurate to within one (1) mc over the entire tuning range. If the dial does not track within one (1) mc it is permissable to off-set the low and high tracking frequencies (100 and 250 mc) to within one (1) mc so that the tuning dial will track properly.

B. RF and Mixer Tracking:

1. Unsolder C-248 from the inductuner lug and solder to the BNC test connector.

2. Connect a sweep generator with a 50-ohm source impedance to the BNC jack installed in step 1 above.

3. Connect oscilloscope to front-end test point TP-202.

4. Set the dial to 70 mc.

5. Adjust C-217 and C-322 for a double-tuned symmetrical response centered at 70 mc. Use 70-mc marker.

6. Adjust C-220 for a 15% dip in the response.

7. Repeat step 5 above.

8. Set dial to 250 mc and bend end inductors L-207 and L-209 to produce a symmetrical response centered at 250-mc. Use a 250-mc marker.

9. Unsolder C-248 from the BNC test connector and resolder to the inductuner.

10. Connect sweep generator to the antenna jack J-102.

NOTE: An accurate 50-ohm source can be achieved by using a 6 or 10 db pad between the sweep generator output and the receiver input.

11. Set the dial to 70 mc.

12. Adjust C-243 for a symmetrical response.

13. Set the dial to 250 mc and move the position of C-244 along the end portion of end inductor L-204 to produce a symmetrial round-nose response.

14. Repeat local oscillator adjustment (B) if necessary.

5 MC. ALIGNMENT

1. Place front panel range switch in 5 mc. position. Capacity couple an accurate 5 mc. signal to the 5 mc. input jack.
2. Tune T-310 and L-302 for maximum on the level meter.

NF MEASURING SET

TYPE NTS-200

PARTS LIST

Symbol No.	Description
C-101	CAPACITOR, CERAMIC DISC: .0047 μf
C-102	Same as C-101
C-103	CAPACITOR, METALIZED PAPER: 1 μf, 400V, Pyramid Type 4MPTIM
C-104	CAPACITOR: 20-20 μf, 450 volt Aerovox Type AEP-44J
C-105	CAPACITOR: 40 μf, 450 V
C-106	CAPACITOR: .001 μf, 500V, standoff
C-107	Same as C-106
C-108	Same as C-106
C-109	CAPACITOR, CERAMIC DISC: .001 μf, 1000V
C-110	Same as C-106
C-111	Same as C-109
C-112	Same as C-109
C-113	Same as C-106
CR-101	RECTIFIER: Diode silicon 1N539
CR-102	Same as CR-101
CR-103	Same as CR-101
CR-104	Same as CR-101
B-201	FAN, Air Marine Corp. #A-1321-46 Centrifugal (high temp lug)
C-213	CAPACITOR, CERAMIC DISC: .01 μf, ±20%, 500V, Erie 811-.01
C-217	CAPACITOR, CERAMIC VARIABLE: .5-3 μμf, 500V, Centralab 829-3
C-218	CAPACITOR, CERAMIC: 1000 μμf, MRC 1000V, Sprague 40C230A
C-219	CAPACITOR, CERAMIC: 2 μμf, ±.25 μμf, 500V, Erie NPO-A
C-220	CAPACITOR, CERAMIC VARIABLE: 1-6 μμf, 500V, Centralab 829-6
C-221	Same as C-219.
C-222	CAPACITOR, CERAMIC VARIABLE: 1-4 μμf, 500V, Centralab 829-4
C-223	CAPACITOR, CERAMIC BUTTON: 10 μμf, ±1 μμf, 500V, Centralab 829-4
C-224	CAPACITOR, CERAMIC FEED-THRU: 47 μμf, ±20%, 500V, Sprague 514-C11A
C-225	Same as C-218
C-226	Same as C-218

PARTS LIST

Symbol No.	Description
C-227	CAPACITOR, CERAMIC: .001 μf, MRC, 500V, Sprague 507C2
C-228	CAPACITOR, CERAMIC: 1000 μμf, GMV, 500V, Sprague 514CL
C-229	Same as C-220
C-230	CAPACITOR, CERAMIC BUTTON: 8.2 μμf ±.5 μμf, 500V, Erie NPO-A
C-231	CAPACITOR, CERAMIC: 6.8 μμf ±.5 μμf, 500V, Erie N220
C-232	Same as C-227
C-233	CAPACITOR, CERAMIC BUTTON: .5 μμf ±.25 μμf, 600V, Centralab TCZ-5
C-234	CAPACITOR, CERAMIC BUTTON: 3.3 μμf, ±.25 μμf, 500V, Erie NPO-A
C-235	Same as C-218
C-236	Same as C-228
C-237	Same as C-233
C-238	Same as C-228
C-239	Same as C-218
C-240	CAPACITOR, CERAMIC: 1000 μμf, MRC, 1000V, ,Sprague 507C2
C-241	Same as C-228
C-242	Same as C-228
C-243	Same as C-217
C-244	CAPACITOR, CERAMIC BUTTON: 6.8 μμf ±.5 μμf, 500V, Erie NPO-A
C-245	Same as C-228
C-246	CAPACITOR, CERAMIC BUTTON: 33 μμf, ±10%, 500V, Erie NPO-T
C-247	CAPACITOR, CERAMIC BUTTON: 22 μμf, ±10%, 500V, Erie NPO-A
C-248	CAPACITOR, CERAMIC BUTTON: 1000 μμf, ±20%, 600V, Centralab D6-102
C-249	Same as C-227
C-250	Same as C-227
C-251	CAPACITOR, CERAMIC BUTTON: 500 μμf ±100 μμf, 500V, Erie GP2-331
C-252	CAPACITOR, CERAMIC BUTTON: 200 μμf ±20%, 500V, Erie 370-FA
C-253	Same as C-252
C-254	Same as C-252
C-255	Same as C-252
C-256	Same as C-252
C-257	Same as C-228

PARTS LIST

Symbol No.	Description
C-258	Same as C-228
C-259	Same as C-230
C-260	Not used
C-261	Not used
C-262	Same as C-218
C-263	Same as C-228
C-301	CAPACITOR: .0047 μf, 500V, V-GMV
C-302	CAPACITOR, CERAMIC TUBULAR: 4.7 ±.25 μμf, NPO-A
C-303	CAPACITOR, CERAMIC TUBULAR: 2.0 μμf ±.25 μμf, NPO-A
C-304	Same as C-303
C-305	CAPACITOR, CERAMIC TUBULAR: 39 μμf ±10%, NPO-T
C-306	Same as C-301
C-307	Same as C-301'
C-308	Same as C-301
C-309	CAPACITOR, CERAMIC TUBULAR: 8.2 μμf, ±.5 μμf, NPO-A
C-310	Same as C-303
C-311	Same as C-303
C-312	Same as C-305
C-313	CAPACITOR, CERAMIC TUBULAR: 470 μμf ±10%, CP2
C-314	Same as C-301
C-315	Same as C-301
C-316	CAPACITOR, FEEDTHRU: .001 μf
C-317	Same as C-301
C-318	Same as C-309
C-319	Same as C-303
C-320	Same as C-303
C-321	Same as C-305
C-322	Same as C-301
C-323	Same as C-301
C-324	Same as C-301
C-325	Same as C-301
C-326	Same as C-309

PARTS LIST

Symbol No.	Description
C-327	Same as C-303
C-328	Same as C-303
C-329	Same as C-305
C-330	Same as C-301
C-331	Same as C-316
C-332	Same as C-301
C-333	Same as C-301
C-334	Same as C-301
C-335	CAPACITOR CERAMIC TUBULAR: 5.6 ±.25 μμf, NPO-A
C-336	CAPACITOR, CERAMIC TUBULAR: 10 μμf, ±1 μμf, NPO-A
C-337	Same as C-313
C-338	Same as C-301
C-339	Same as C-313
C-340	Same as C-301
C-341	Same as C-303
C-342	CAPACITOR, SILVER MICA: 82 μμf, ±5%, CM15F
C-343	CAPACITOR, SILVER MICA: 47 μμf, ±5%, CM15F
C-344	Same as C-301
C-345	Same as C-316
C-346	Same as C-301
C-347	Same as C-301
C-348	Same as C-302
C-349	CAPACITOR: 220 μμf, ±10%, CM15F
C-350	Same as C-316
C-351	Same as C-316
C-352	CAPACITOR, CERAMIC DISC: .001 μf
C-353	CAPACITOR, STANDOFF: .001 μf
CR-301	DIODE, Type 1N66
CR-302	DIODE, Type 1N66
J-101	CONNECTOR: Power Hubbell Type 7486
J-102	CONNECTOR: BNC, panel jack UG-291
J-103	CONNECTOR: BNC panel jack UG-262

PARTS LIST

Symbol No.	Description
J-104	Same as J-102
J-105	CONNECTOR, RECEPTACLE: UG-290/U
J-106	CONNECTOR, RECEPTACLE: M7S-LRN
J-201	CONNECTOR: UG-1094/U
J-202	Same as J-201
L-101	CHOKE: Nems-Clarke Type AB-17,169
L-102	INDUCTANCE: Nems-Clarke Type A-15,060
L-103	Same as L-102
L-104	INDUCTANCE: Nems-Clarke Type 5419-A
L-105	Same as L-104
L-201	COIL, RF: per Nems-Clarke AA-14,734
L-202	COIL, RF: per Nems-Clarke AA-14,735
L-203	Same as L-202
L-204	CONTACT, per Nems-Clarke A-14,759
L-205	INDUCTUNER: modified per Nems-Clarke B-18,325
L-206	Same as L-202
L-207	CONTACT, per Nems-Clarke A-17,727
L-208	COIL, RF: per Nems-Clarke AA-14,737
L-209	CONTACT, per Nems-Clarke A-14-749-1
L-210	CONTACT, per Nems-Clarke A-17,728
L-211	COIL, RF: per Nems-Clarke AA-14,806
L-212	Same as L-208
L-213	RF CHOKE: per Nems-Clarke AA-16,625
L-301	INDUCTANCE: per Nems-Clarke dwg. Type 5419-1
L-302	INDUCTANCE: CTC Type X-2060-7
L-303	INDUCTANCE: per Nems-Clarke dwg. Type A-14,804
L-304	INDUCTANCE: per Nems-Clarke dwg. Type A-16,625
L-305	Sane as L-304
P-101	PLUG: M7P-LSH19S Winchester
	Fuseholder, HKP- Bussman
F-101	FUSE: 1 amp, SLO-BLO (MDL)
F-102	FUSE: 1/16 amp, MDL-1/16

NTS-200

PARTS LIST

Symbol No.	Description
R-101	RESISTOR: 200 ohm, 10W, ±3%, Dalohm RH10
R-102	POTENTIOMETER: 1K-25W, Mallory 25 K1000P
R-103	RESISTOR: 1K-25W, ±3%, Dalohm PH-25
R-104	RESISTOR: 1.6K, 25W, ±3%, Dalohm PH-25
R-105	POTENTIOMETER: 5K, 2W, Type JLU-5021
R-106	RESISTOR: 24 ohms, ±1%, 1/2W, Shallcross 181 or equivalent
R-107	RESISTOR: 6 ohms, 1/2W, ±1%, Shallcross 181 or equivalent
R-108	RESISTOR: 100 ohms, 1/2W, ±5%, Allen Bradley
R-109	Same as R-108
R-110	RESISTOR: 1K, 1/2W, ±5%, Allen Bradley
R-111	RESISTOR: 51 ohms, 1/2W, ±5%, Allen Bradley
R-112	POTENTIOMETER: 500 ohms, 2W, JU-5011
R-113	POTENTIOMETER: 2.5K, 2W, JU-2521
	KNOBS, Raytheon Type 70-3-2
	KNOB, Crank Raytheon Type 125-6-2
R-201	RESISTOR, FIXED COMP: 160 ohms, ±5%, 1/2W, Allen Bradley EB-1615
R-202	RESISTOR, FIXED COMP: 100 ohms, ±5%, 1/2W, Allen Bradley EB-1015
R-203	RESISTOR, FIXED COMP: 8.2K ±5%, 1/2W, Allen Bradley EB-8225
R-204	RESISTOR, FIXED COMP: 51K, ±5%, 1/2W, Allen Bradley EB-5135
R-205	RESISTOR, FIXED COMP: 1.5K ±5%, 2W, Allen Bradley HB-1525
R-206	RESISTOR, FIXED COMP: 5.6K ±5%, 1W, Allen Bradley GB-5625
R-207	RESISTOR, FIXED COMP: 6.2K ±5%, 1W, Allen Bradley GB-6225
R-208	RESISTOR, FIXED COMP: 120 ohms, ±5%, 1/2W, Allen Bradley EB-1215
R-209	RESISTOR, FIXED COMP: 470K ±10%, 1/2W, Allen Bradley EB-4741
R-210	Same as R-209
R-211	RESISTOR, FIXED COMP: 27K, ±10%, 1/2W, Allen Bradley EB-2731
R-212	RESISTOR, FIXED COMP: 150K ±10%, 1/2W, Allen Bradley EB-1541
R-213	RESISTOR, FIXED COMP: 8.2K ±10%, 2W, Allen Bradley HB-8221
R-214	Same as R-211
R-215	RESISTOR, FIXED COMP: 220 ohms, ±10%, 1/2W, Allen Bradley EB-2211
R-216	Same as R-202
R-217	RESISTOR, FIXED COMP: 510 ohms ±5%, 1W, Allen Bradley GB-5115

PARTS LIST

Symbol No.	Description
R-218	RESISTOR, FIXED COMP: 1K ±5%, 1W, Allen Bradley GB-1025
R-219	RESISTOR, FIXED COMP: 150K ±5%, 1/2W, Allen Bradley EB-1545
R-220	RESISTOR WIREWOUND: 5.1 ohms, 25W, Dalohm Type PH-25
R-301	RESISTOR: 1K, 1/2W, 5%, Allen Bradley
R-302	RESISTOR: 22K, 1/2W, 5%, Allen Bradley
R-303	RESISTOR: 150 ohm, 1/2W, 5%, Allen Bradley
R-304	RESISTOR: 200 ohm, 1/2W, 5%, Allen Bradley
R-305	RESISTOR: 47K, 1/2W, Allen Bradley
R-306	Same as R-301
R-307	OMITTED
R-308	RESISTOR: 10K, 1/2W, 5%, Allen Bradley
R-309	RESISTOR: 116 ohms, 1/2W, 1%, deposited carbon
R-310	RESISTOR: 276 ohms, 1/2W, 1%, deposited carbon
R-311	RESISTOR: 240K, 1/2W, 5%, Allen Bradley
R-312	OMITTED
R-313	RESISTOR: 140 ohms, 1/2W, 5%, Allen Bradley
R-314	Same as R-304
R-315	Same as R-305
R-316	Same as R-301
R-317	Same as R-308
R-318	Same as R-303
R-319	Same as R-304
R-320	RESISTOR: 100K, 1/2W, 5%, Allen Bradley
R-321	RESISTOR: 100 ohms, 1/2W, Allen Bradley
R-322	Same as R-321
R-323	Same as R-305
R-324	Same as R-301
R-325	Same as R-308
R-326	RESISTOR: 180 ohms, 1/2W, 5%, Allen Bradley
R-327	RESISTOR: 33K, 1/2W, 5%, Allen Bradley
R-328	Same as C-327
R-329	Same as R-301

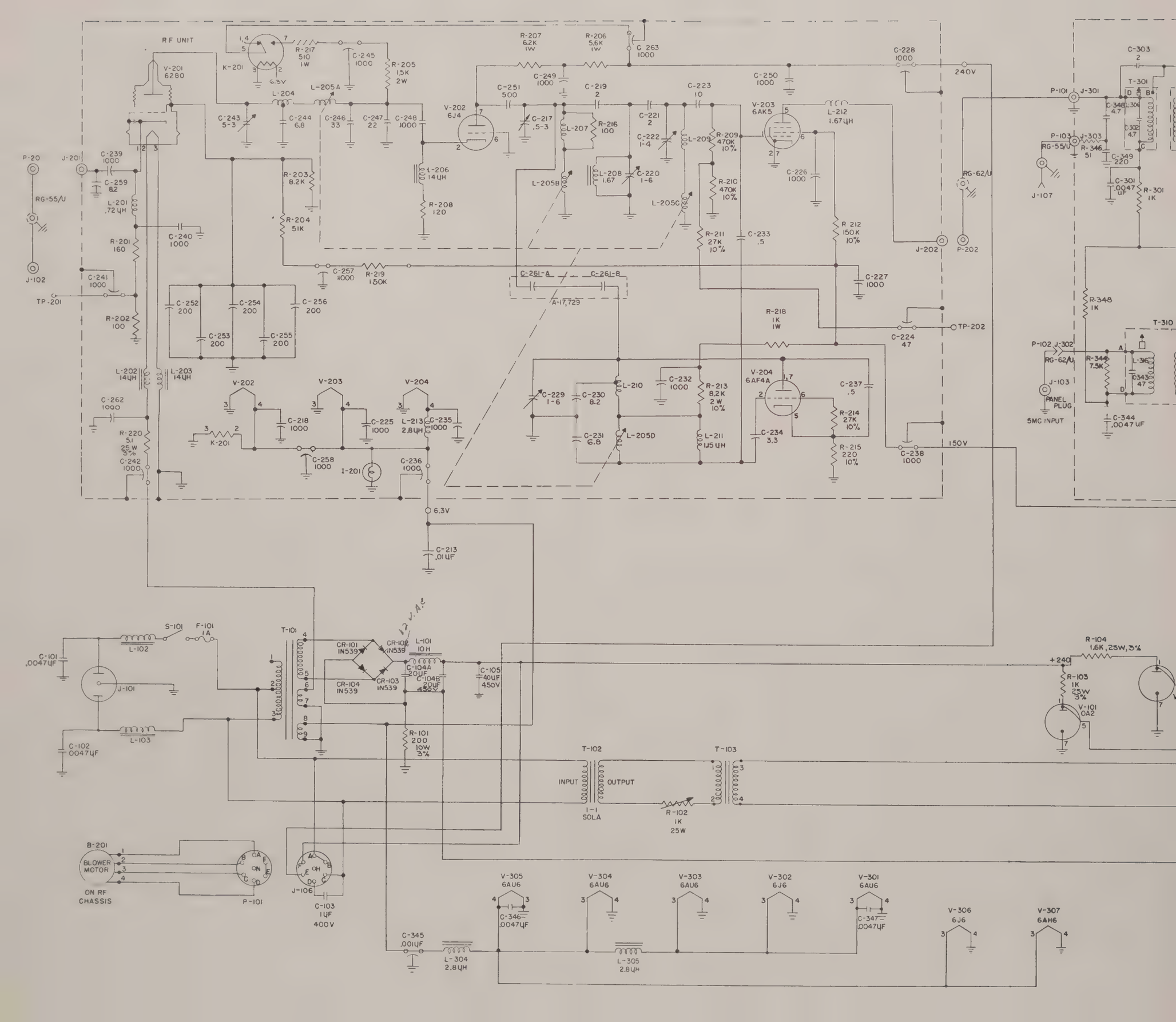
NTS-200

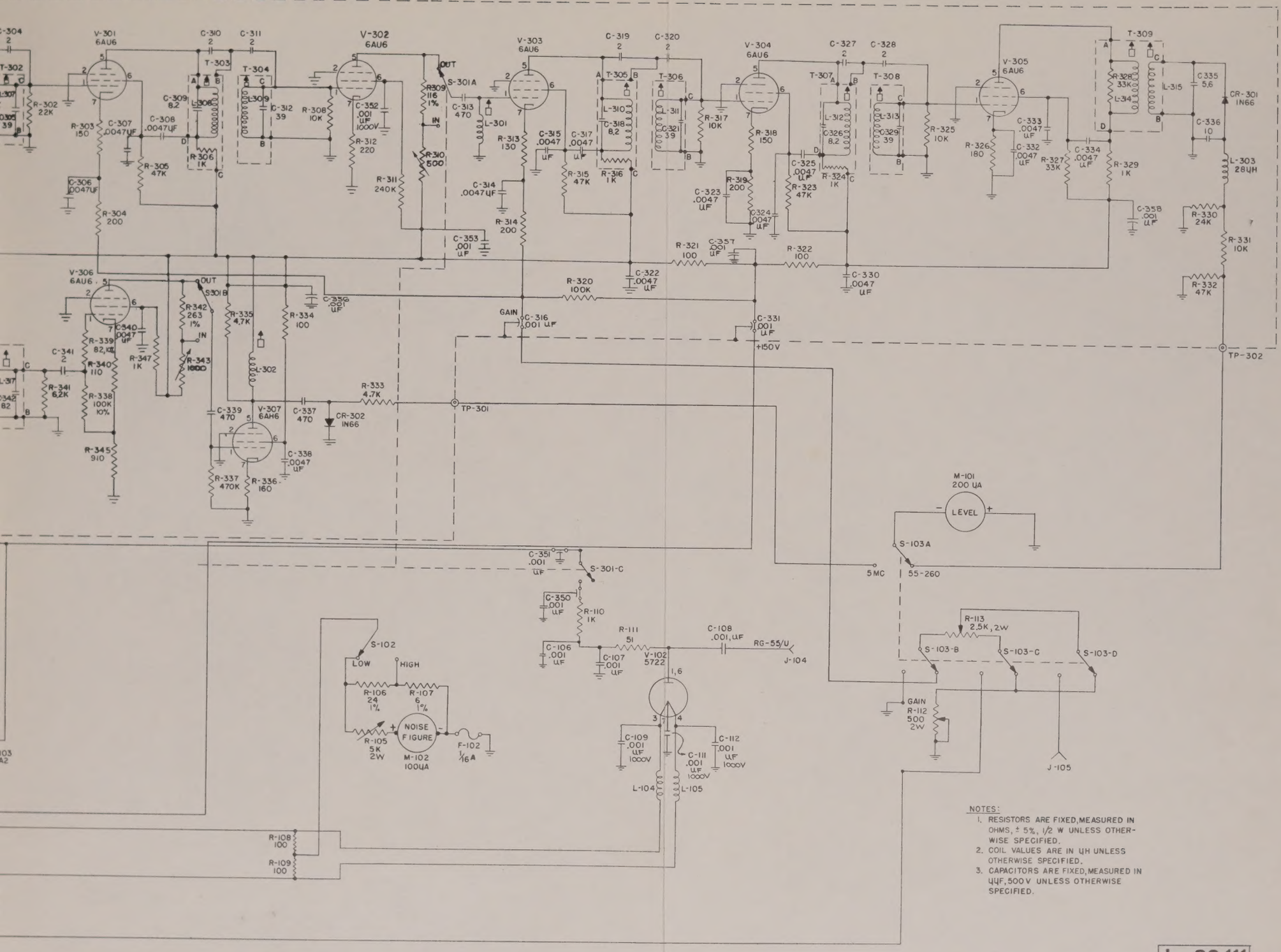
PARTS LIST

Symbol No.	Description
R-330	RESISTOR: 24K, 1/2W, 5%, Allen Bradley
R-331	Same as R-308
R-332	Same as R-305
R-333	RESISTOR: 4.7K, 1/2W, 5%, Allen Bradley
R-334	Same as R-321
R-335	RESISTOR, 4.7K, 1/2W, 5%, Allen Bradley
R-336	RESISTOR: 160 ohms, 1/2W, 5%, Allen Bradley
R-337	RESISTOR: 470K, 1/2W, 5%, Allen Bradley
R-338	RESISTOR: 100K, 1/2W, 10%, Allen Bradley
R-339	RESISTOR: 82 ohms, 1/2W, 10%, Allen Bradley
R-340	RESISTOR: 110 ohms, 1/2W, 5%, Allen Bradley
R-341	RESISTOR: 6.2K, 1/2W, 5%, Allen Bradley
R-342	RESISTOR: 263 ohms, 1/2W, 1%, deposited carbon
R-343	RESISTOR: 568 ohms, 1/2W, 1%, deposited carbon
R-344	RESISTOR: 7.5K, 1/2W, 5%, Allen Bradley
R-345	RESISTOR: 910 ohms, 1/2W, 5%, Allen Bradley
S-101	SWITCH: SPST- Smith Type 520
S-102	SWITCH: SPDT-Smith Type 521
S-103	SWITCH: 4PDT-OAK Nems-Clarke Dwg. 5419-1 Oak part 98810-F-1
S-301 A, B, C	SWITCH: 3 pole double throw Oak #98811-F-1
T-301	TRANSFORMER: modified per Nems-Clarke dwg. no. AB-14,989
T-302	TRANSFORMER: modified per Nems-Clarke dwg. no. AB-14,793
T-303	TRANSFORMER: modified per Nems-Clarke dwg. no. AB-14,797
T-304	Same as T-302
T-305	Same as T-303
T-306	Same as T-302
T-307	Same as T-303
T-308	Same as T-302
T-309	TRANSFORMER: modified per Nems-Clarke part dwg. no. AB-14,799
T-310	TRANSFORMER: Nems-Clarke part dwg. AB-15,544
TP-301	TIE POINT, FEEDTHRU: USECO 1433

PARTS LIST

Symbol No.	Description
TP-302	Same as TP-301
T-101	TRANSFORMER, POWER: Nems-Clarke AC-18, 227
T-102	TRANSFORMER: Regulating SOLA Type 30498
T-103	FILAMENT: Nems-Clarke dwg. 5419- A-23, 542
M-101	METER: 0-300 ud movement- Marion Type 55 knife edge pointer Special scale LEVEL
M-102	METER: 0-200 ud movement-Marion Type 55 knife edge pointer Special scale- Noise Figure
XV-102	TUBE SOCKET: Mycalex 70A403
XV-101	TUBE SOCKET: TS-102-P01 ELCO
XV-103	Same as XV-101
V-101	TUBE: 0A2 Regulator
V-102	TUBE, NOISE DIODE: Type 5722
V-103	Same as V-101
V-201	TUBE ELECTRON: Western Electric #6280
V-202	TUBE ELECTRON: 6J4
V-203	TUBE ELECTRON: 6AK5
V-204	TUBE ELECTRON: 6AF4A
V-301	TUBE: 6AU6
V-302	TUBE: 6AU6
V-303	TUBE: 6AU6
V-304	TUBE: 6AU6
V-305	TUBE: 6AU6
V-306	TUBE: 6AU6
V-307	TUBE: 6AH6


RF UNIT
V-201 6280
K-201
6.3V
R-217 510 1W
C-245 1000
R-205 1.5K 2W
L-204
L-205A
C-243 5-3
C-244 6.8
C-246 33
C-247 22
C-248 1000
V-202 6J4
R-207 6.2K 1W
R-206 5.6K 1W
C 263 1000
C-249 1000
C-251 500
C-219 2
C-223 10
C-250 1000
C-228 1000
240V
V-203 6AK5
L-212 1.67µH
C-217 .5-3
L-207
R-216 100
C-221 2
C-222 1-4
L-209
R-209 470K 10%
L-206 14µH
R-208 120
L-205B
L-208 1.67
C-220 1-6
L-205C
R-210 470K 10%
C-226 1000
P-20
J-201
C-239 1000
C-259 82
RG-55/U
L-201 .72µH
R-203 8.2K
R-204 51K
R-201 160
C-240 1000
J-102
C-241 1000
TP-201
C-257 1000
R-219 150K
C-261-A
C-261-B
A-17,729
R-211 27K 10%
C-233 .5
R 212 150K 10%
J-202
P-202
RG-62/U
C-227 1000
C-252 200
C-254 200
C-256 200
C-253 200
C-255 200
R-202 100
R-218 1K 1W
C-224 47
TP-202
L-202 14µH
L-203 14µH
V-202
V-203
V-204
C-262 1000
C-218 1000
C-225 1000
L-213 2.8µH
C-235 1000
R-220 5.1 25W 5%
C-242 1000
K-201
C-258 1000
I-201
C-236 1000
C-229 1-6
C-230 8.2
L-210
C-232 1000
R-213 8,2K 2W 10%
V-204 6AF4A
C-237 .5
R-214 27K 10%
C-231 6.8
L-205D
L-211 1.45 µH
C-234 3.3
R-215 220 10%
C-238 1000
150V
6.3V
C-213 .01 µF
P-101
J-301
C-303 2
T-301
C-348 4.7
C-302 4.7
P-103
J-303
R-346 51
RG-55/U
C-349 220
J-107
C-301 .0047 µF
R-301 1K
R-348 1K
T-310
P-102
J-302
RG-62/U
R-344 7.5K
L-306
C-343 47
J-103
PANEL PLUG
5MC INPUT
C-344 .0047 µF
S-101
F-101 1A
L-102
T-101
CR-101 IN539
CR-102 IN539
CR-104 IN539
CR-103 IN539
L-101 10 H
C-104A 20µF
C-104B 20µF 450V
C-105 40µF 450V
C-101 .0047µF
J-101
L-103
C-102 .0047µF
R-101 200 10W 3%
R-104 1.6K, 25W, 3%
+240
R-103 1K 25W 3%
V-101 0A2
T-102
T-103
INPUT
OUTPUT
1-1 SOLA
R-102 1K 25W
B-201
BLOWER MOTOR
ON RF CHASSIS
P-101
J-106
C-103 1µF 400V
V-305 6AU6
V-304 6AU6
V-303 6AU6
V-302 6J6
V-301 6AU6
C-346 .0047µF
C-347 .0047µF
V-306 6J6
V-307 6AH6
C-345 .001µF
L-304 2.8µH
L-305 2.8µH



NOTES:

1. RESISTORS ARE FIXED, MEASURED IN OHMS, ± 5%, 1/2 W UNLESS OTHERWISE SPECIFIED.
2. COIL VALUES ARE IN μH UNLESS OTHERWISE SPECIFIED.
3. CAPACITORS ARE FIXED, MEASURED IN μμF, 500 V UNLESS OTHERWISE SPECIFIED.

J - 80,111

SCHEMATIC DIAGRAM

NOISE TEST SET MODEL NTS-200